

JAN

Access DB# 91707

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: R GITOMER Examiner #: 69630 Date: 4/16/03
Art Unit: 1651 Phone Number 30 8-0732 Serial Number: 09/883,586
Mail Box and Bldg/Room Location: 11301 Results Format Preferred (circle): PAPER DISK E-MAIL
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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

JAN

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Searcher Location: _____	Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>5/14/03</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>5/14/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>20</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>550</u>	Other _____	Other (specify) _____

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FILE COVERS 1907 - 10 Apr 2003 VOL 138 ISS 16

FILE LAST UPDATED: 10 Apr 2003 (20030410/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> e giri brij/au

E1	3	GIRI BANDLA S/AU
E2	3	GIRI BHOOPANDER/AU
E3	0 -->	GIRI BRIJ/AU
E4	7	GIRI BRIJ P/AU
E5	3	GIRI BRIJ PAL/AU
E6	6	GIRI C/AU
E7	10	GIRI C C/AU
E8	11	GIRI C P/AU
E9	3	GIRI CHANDANA/AU
E10	2	GIRI CHANDRAKANT/AU
E11	7	GIRI CHANDRAKANT P/AU
E12	1	GIRI CHANDRAKANT PURUSHOTTAM/AU

=> s e4 or e5

7 "GIRI BRIJ P"/AU

3 "GIRI BRIJ PAL"/AU
L1 10 "GIRI BRIJ P"/AU OR "GIRI BRIJ PAL"/AU

=> d ti 1-10

L1 ANSWER 1 OF 10 CA COPYRIGHT 2003 ACS
TI Single molecule detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-soluble, water-insoluble or partially-water soluble polymers

L1 ANSWER 2 OF 10 CA COPYRIGHT 2003 ACS
TI Novel stabilized formulations for chemiluminescent assays

L1 ANSWER 3 OF 10 CA COPYRIGHT 2003 ACS
TI Recovery and removal of mercury from effluent

L1 ANSWER 4 OF 10 CA COPYRIGHT 2003 ACS
TI Preparation of chemiluminescent 1,2-dioxetane derivatives containing phosphoryloxyphenyl moiety

L1 ANSWER 5 OF 10 CA COPYRIGHT 2003 ACS
TI Spacer independent intramolecular triplet energy transfer in diketones

~~L1 ANSWER 6 OF 10 CA COPYRIGHT 2003 ACS~~
TI A method for direct in vivo measurement of drug concentrations from a single deuterium NMR spectrum

L1 ANSWER 7 OF 10 CA COPYRIGHT 2003 ACS
TI Divergent photochemistry of 2,4-di-tert-butylacetophenone and -benzophenone

L1 ANSWER 8 OF 10 CA COPYRIGHT 2003 ACS
TI Chemical and enzymatic triggering of 1,2-dioxetanes. 1: aryl esterase-catalyzed chemiluminescence from a naphthyl acetate-substituted dioxetane

L1 ANSWER 9 OF 10 CA COPYRIGHT 2003 ACS
TI Photochemistry of meta-substituted and para-substituted aromatic polycarbonyl compounds

L1 ANSWER 10 OF 10 CA COPYRIGHT 2003 ACS
TI Novel photoreversible cyclization of acyl-substituted 2,4,6-triisopropylbenzophenones

=> d bib ab 1 2 4 8

L1 ANSWER 1 OF 10 CA COPYRIGHT 2003 ACS
AN 136:147113 CA
TI Single molecule detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-soluble, water-insoluble or partially-water soluble polymers

IN Giri, Brij P.

PA USA

SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002013250	A1	20020131	US 2001-883586	20010618
PRAI	US 2000-212883P	P	20000617		
OS	MARPAT 136:147113				

AB A chemiluminescent 1,2-dioxetane includes an enzyme-triggerable stable 1,2-dioxetane; a polymeric enhancer which is either an ammonium or phosphonium salt of a polyvinylbenzyl chloride; and an aq. enzyme diluent or stabilizer comprising a metal halide, alc., amine-based salt, or blood or plant protein. The system is efficacious for single mol. detection of enzymes such as alk. phosphatase, .beta.-galactosidase, and cholinesterase. Thus, chemiluminescence detn. of alk. phosphatase using [(4-methoxy)-4-(3-phosphoryloxy-4-chlorophenyl)]¹⁰pro[1,2-dioxetane-3,3-tricyclo[7.3.1.0^{2,7}]tridec-2,7-ene] disodium salt and polyvinylbenzyltrioctylphosphonium chloride was demonstrated.

L1 ANSWER 2 OF 10 CA COPYRIGHT 2003 ACS
AN 135:149612 CA
TI Novel stabilized formulations for chemiluminescent assays
IN Giri, Brij Pal
PA USA
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001055446	A1	20010802	WO 2001-US2779	20010126
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001046688	A1	20011129	US 2001-770592	20010126
EP 1254252	A1	20021106	EP 2001-906739	20010126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
* PRAI US 2000-178626P	P	20000128		
WO 2001-US2779	W	20010126		

AB A substrate having an extended shelf life for chemiluminescent detection and assaying is useful with enzyme-based probes as well as for immunoassays, DNA or RNA or protein detection and blotting. The substrate is a mixt. of (a) a chemiluminescent compd., (b) an oxidant, (c) a stabilizer and (d) a buffer. The substrate may further include a chemiluminescent enhancer and a solubilizer. That substrate may be in an org. solvent or may be aq. based. Figures, shows varying concns., in femtograms, of peroxidase enzyme and was plotted against intensity.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 10 CA COPYRIGHT 2003 ACS
AN 132:207956 CA
TI Preparation of chemiluminescent 1,2-dioxetane derivatives containing phosphoryloxyphenyl moiety
IN Giri, Brij P.
PA USA
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000014092	A1	20000316	WO 1999-US20590	19990908

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
 DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
 JP, KE, KG, KP, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
 NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,
 UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2342979 AA 20000316 CA 1999-2342979 19990908
 AU 9959130 A1 20000327 AU 1999-59130 19990908
 EP 1112274 A1 20010704 EP 1999-946804 19990908

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

US 6461876 B1 20021008 US 2000-643063 20000821

PRAI US 1998-99693P P 19980908
 WO 1999-US20590 W 19990908

OS MARPAT 132:207956

AB The title compds. I [(a) R1, R2 are each, individually, an active site or
 when fused together form an active site, and R3 and R4 are each,
 individually, an active site or when fused together form an active site or
 (b) R1 has at least two hetero atoms with active site and R3 and R4 are
 inactive and R2 active], useful as chemiluminescent compds. in assays of
 enzymes (no data), are prepd. These 1,2-dioxetanes have electron donating
 or withdrawing groups at the four-membered peroxide ring, thus, the
 1,2-dioxetane ring hereof is affected by the added electronic charge.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 8 OF 10 CA COPYRIGHT 2003 ACS
 AN 107:129703 CA
 TI Chemical and enzymatic triggering of 1,2-dioxetanes. 1: aryl
 esterase-catalyzed chemiluminescence from a naphthyl acetate-substituted
 dioxetane
 AU Schaap, A. Paul; Handley, Richard S.; Giri, Brij P.
 CS Dep. Chem., Wayne State Univ., Detroit, MI, 48202, USA
 SO Tetrahedron Letters (1987), 28(9), 935-8
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 AB A thermally stable 1,2-dioxetane bearing a naphthyl acetate group was
 enzymically cleaved in aq. buffer to generate chemiluminescence at ambient
 temp.

=> d ind 1 2 4 8

L1 ANSWER 1 OF 10 CA COPYRIGHT 2003 ACS
 IC ICM C12S009-00
 ICS C11D003-00
 NCL 510392000
 CC 7-1 (Enzymes)
 ST phosphatase chemiluminescence detn dioxetane polyvinylbenzyltrioctylphosph
 onium chloride
 IT Alcohols, analysis
 Halides
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (enzyme stabilizer; single mol. detection of enzymes using enhanced
 chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or
 partially-water sol. polymers)
 IT Proteins
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (of blood or plant, enzyme stabilizer; single mol. detection of enzymes
 using enhanced chemiluminescence from 1,2-dioxetanes and water-sol.,
 water-insol. or partially-water sol. polymers)

IT Amines, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (salts, enzyme stabilizer; single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT Chemiluminescence spectroscopy
 (single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT Polymers, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (trialkylammonium- or trialkylphosphonium; single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT 56-81-5, Glycerol, analysis 64-17-5, Ethanol, analysis 67-63-0, Isopropyl alcohol, analysis 71-23-8, Propyl alcohol, analysis 71-36-3, Butyl alcohol, analysis 75-65-0, tert-Butyl alcohol, analysis 77-86-1, Tris 78-83-1, Isobutyl alcohol, analysis 78-92-2, sec-Butyl alcohol 102-71-6, Triethanolamine, analysis 107-21-1, Ethylene glycol, analysis 109-86-4, Ethylene glycol methyl ether 111-42-2, Diethanolamine, analysis 124-68-5, 2-Amino-2-methyl-1-propanol 7447-40-7, Potassium chloride, analysis 7646-85-7, Zinc chloride, analysis 7647-14-5, Sodium chloride, analysis 7786-30-3, Magnesium chloride, analysis
~~RL: ARU (Analytical role, unclassified); ANST (Analytical study)~~
 (enzyme stabilizer; single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT 9001-08-5, Cholinesterase 9001-78-9 9031-11-2, .beta.-Galactosidase
 RL: ANT (Analyte); ANST (Analytical study)
 (single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT 6788-84-7D, 1,2-Dioxetane, derivs. 260791-04-6
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

IT 72852-29-0, Polyvinylbenzyltributylammonium chloride 77519-21-2 151346-37-1 151346-38-2 393869-24-4
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (single mol. detection of enzymes using enhanced chemiluminescence from 1,2-dioxetanes and water-sol., water-insol. or partially-water sol. polymers)

L1 ANSWER 2 OF 10 CA COPYRIGHT 2003 ACS

IC ICM C12Q001-46
 ICS C12Q001-00; C12Q001-26; C12Q001-32; G01N033-53

CC 9-16 (Biochemical Methods)

ST stabilized formulation chemiluminescent assay

IT Functional groups
 (Anthryl; novel stabilized formulations for chemiluminescent assays)

IT Functional groups
 (Naphthyl; novel stabilized formulations for chemiluminescent assays)

IT Phosphonium compounds
 Quaternary ammonium compounds, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (Polymeric; novel stabilized formulations for chemiluminescent assays)

IT Luminescence, chemiluminescence
 (enhancer; novel stabilized formulations for chemiluminescent assays)

IT Pigments, biological
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (luciferins; novel stabilized formulations for chemiluminescent assays)

IT Body fluid
 Buffers

Chemiluminescence spectroscopy
Chemiluminescent substances
Concentration (condition)
Cypridina
Immunoassay
Mixtures
Oxidizing agents
Phenyl group
Pholas dactylus
Photinus pyralis
Solubilizers
Stabilizing agents
Surfactants
Test kits
Volume
pH

- (novel stabilized formulations for chemiluminescent assays)
- IT DNA
Proteins, general, analysis
RNA
RL: ANT (Analyte); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Aromatic compounds
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(novel stabilized formulations for chemiluminescent assays)
- IT Enzymes, uses
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(novel stabilized formulations for chemiluminescent assays)
- IT Hemoglobins
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(novel stabilized formulations for chemiluminescent assays)
- IT Alcohols, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Carbohydrates, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Macromolecular compounds
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Polymers, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Polyoxyalkylenes, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)
- IT Solvents
(org.; novel stabilized formulations for chemiluminescent assays)
- IT Albumins, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(serum, bovine; novel stabilized formulations for chemiluminescent assays)
- IT 197156-36-8
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(N-Alkyl, and ester or thioester; novel stabilized formulations for chemiluminescent assays)
- IT 9003-99-0, Peroxidase
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(horseradish; novel stabilized formulations for chemiluminescent assays)
- IT 50-99-7, D-Glucose, analysis 57-88-5, Cholesterol, analysis 289-95-2D, Pyrimidine, derivs.
RL: ANT (Analyte); ANST (Analytical study)
(novel stabilized formulations for chemiluminescent assays)

IT 14915-07-2, Peroxide
 RL: ANT (Analyte); ARU (Analytical role, unclassified); FMU (Formation, unclassified); ANST (Analytical study); FORM (Formation, nonpreparative)
 (novel stabilized formulations for chemiluminescent assays)

IT 87-51-4, Indole-3-acetic acid, uses 87-51-4D, Indole-3-acetic acid, ester or thioester 87-66-1, Pyrogallol 92-04-6, 2-Chloro-4-phenylphenol 92-69-3, p-Phenylphenol 92-81-9, Acridane 92-84-2D, Phenothiazine, N-alkyl, or substituted 95-77-2, 3,4-Dichlorophenol 98-54-4, 4-tert-Butylphenol 101-53-1, 4-Benzylphenol 106-41-2, p-Bromophenol 106-44-5, 4-Methylphenol, uses 106-48-9, p-Chlorophenol 106-50-3, p-Phenylenediamine, uses 108-46-3, Resorcinol, uses 108-73-6, Phloroglucinol 108-95-2, Phenol, uses 110-86-1D, Pyridine, derivs., uses 120-83-2, 2,4-Dichlorophenol 124-43-6, Urea hydrogen peroxide 135-19-3, 2-Naphthol, uses 135-67-1D, Phenoxazine, N-alkyl, or substituted 135-67-1D, Phenoxazine, derivs. 288-88-0, 1H-1,2,4-Triazole 289-80-5D, Pyridazine, derivs. 459-32-5, p-Fluorocinnamic acid 500-85-6, Phenolindophenol 501-97-3 521-31-3, Luminol 540-38-5, p-Iodophenol 569-77-7, Purpurogallin 573-97-7 583-17-5, o-Hydroxycinnamic acid 588-30-7, m-Hydroxycinnamic acid 831-82-3, 4-Phenoxyphenol 936-02-7, o-Hydroxybenzoic acid hydrazide 939-69-5, 2-Cyano-6-hydroxybenzothiazole 956-48-9, 2,6-Dichlorophenolindophenol 1207-72-3, 10-Methylphenothiazine 1634-82-8 1689-82-3, 4-(Phenylazo)phenol 1904-58-1, o-Aminobenzoic acid hydrazide 1912-48-7, N-Methylindole-3-acetic acid 1912-48-7D, N-Methylindole-3-acetic acid, esters 1965-09-9 2393-18-2, p-Aminocinnamic acid 2591-17-5, Firefly luciferin 3558-83-6, 4-(4'-Hydroxyphenyl)benzophenone 3682-14-2, Isoluminol 3964-56-5, 4-Bromo-2-chlorophenol 4217-54-3 4217-54-3D, derivs. 5341-58-2, 2-Hydroxy-3-naphthoic acid hydrazide 5818-06-4, m-Hydroxybenzoic acid hydrazide 6245-87-0D, Indoaniline, derivs. 6949-73-1, 2-Hydroxy-9-fluorenone 6949-73-1D, 2-Hydroxy-9-fluorenone, substituted 7400-08-0, p-Hydroxycinnamic acid 7722-84-1, Hydrogen peroxide, uses 7732-34-5 7732-46-9 9001-05-2, Catalase 9001-37-0, Glucose oxidase 9007-43-6, cytochrome C, uses 9028-76-6, Cholesterol oxidase 13599-84-3, 6-Hydroxybenzothiazole 15231-91-1, 6-Bromonaphth-2-ol 15630-89-4 16009-13-5, Protohemin 16239-18-2 19656-33-8 19656-33-8D, derivs. 20115-09-7, Dehydroluciferin 22493-86-3 22493-86-3D, derivs. 25415-88-7D, Hydrazide, Aminoarylcyclic diacyl, or salts or hydroxyaryl cyclic diacyl 26278-79-5 34314-06-2, Tetramethylbenzidine 36705-74-5 36705-75-6 39349-73-0D, Perborate, salts 46817-52-1, p-Phenylphenol phosphate 54827-17-7, 3,3',5,5'-Tetramethylbenzidine 59152-02-2 80567-65-3, 2,6-Dihydroxybenzothiazole 91974-05-9 92681-33-9 106050-81-1, 6-Hydroxybenzoxazole 106050-81-1D, 6-Hydroxybenzoxazole, substituted 108672-78-2 108672-79-3 137015-67-9 150787-21-6 150787-21-6D, derivs. 161006-09-3 172834-35-4 352209-94-0 352209-94-0D, derivs. 352209-95-1D, derivs. 352209-96-2 352209-96-2D, esters 352209-97-3
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (novel stabilized formulations for chemiluminescent assays)

IT 57-09-0, CTAB 60-00-4, EDTA, analysis 65-46-3D, Cytidine, nucleotides 67-42-5, Ethylenebis(oxyethylenenitrilo)tetraacetic acid 67-43-6, Diethylenetriaminepentaacetic acid 67-68-5, Dimethyl sulfoxide, analysis 68-12-2, Dimethylformamide, analysis 85-61-0, Coenzyme A, analysis 109-99-9, Tetrahydrofuran, analysis 112-02-7, Cetyltrimethylammonium chloride 123-91-1, Dioxane, analysis 124-03-8, Cetyldimethylethylammonium bromide 151-41-7, Lauryl sulfate 538-71-6, Domiphen bromide 1405-87-4, Bacitracin 9002-92-0, Brij 35 9002-93-1, Triton X-100 9004-87-9, Polyoxyethylene isooctylphenyl ether 9005-64-5, Tween 20 9005-65-6, Tween 80 9005-66-7, Tween 40 9005-67-8, Tween 60 9005-70-3, Tween 85 9035-81-8, Trypsin inhibitor 9036-19-5, triton x-114 9042-14-2, Dextran sulfate 12619-70-4, Cyclodextrin 14000-31-8, Diphosphate 15827-60-8, DEQUEST 2060S 25322-68-3, Polyethyleneglycol 92046-34-9 104335-52-6
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (novel stabilized formulations for chemiluminescent assays)

IT 9016-45-9, triton n-101
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (straight and branched; novel stabilized formulations for
 chemiluminescent assays)

L1 ANSWER 4 OF 10 CA COPYRIGHT 2003 ACS

IC ICM C07F009-06
 ICS C07D321-00; C07C043-166; C07C043-168; C07C043-178; C07F007-08;
 C07K017-02; G01N033-533

CC 29-7 (Organometallic and Organometalloidal Compounds)
 Section cross-reference(s): 7, 28

ST oxetane phosphoryloxyphenyl moiety contg prepn chemiluminescent;
 chemiluminescent phosphoryloxyphenyl moiety contg dioxetane prepn; enzyme
 assay chemiluminescent phosphoryloxyphenyl moiety contg dioxetane

IT Enzymes, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (detection; prepn. of chemiluminescent dioxetane derivs. for enzyme
 detection)

IT Luminescence, chemiluminescence
 (prepn. of chemiluminescent dioxetane derivs. contg.
 phosphoryloxyphenyl moiety)

IT 260790-97-4P 260790-98-5P 260790-99-6P 260791-00-2P 260791-01-3P
 260791-02-4P 260791-03-5P 260791-04-6P 260791-05-7P
 RL: ~~BAC~~ (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of chemiluminescent dioxetane derivs. contg.
 phosphoryloxyphenyl moiety)

IT 67-56-1, Methanol, reactions 75-89-8, 2,2,2-Trifluoroethanol 94-41-7,
 Benzalacetophenone 99-06-9, 3-Hydroxybenzoic acid, reactions 108-94-1,
 Cyclohexanone, reactions 122-99-6, 2-Phenoxyethanol 123-72-8,
 Butyraldehyde 700-58-3, Adamantan-2-one 10025-87-3, Phosphorus
 oxychloride 18162-48-6, tert-Butyldimethylsilyl chloride 30525-89-4,
 Paraformaldehyde 34113-69-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of chemiluminescent dioxetane derivs. contg.
 phosphoryloxyphenyl moiety)

IT 2544-00-5P 2682-98-6P 16643-41-7P 19438-10-9P 20098-14-0P
 20098-17-3P 21328-39-2P 24133-20-8P 69392-50-3P 99287-98-6P
 120687-94-7P 166272-81-7P 179633-60-4P 179633-61-5P 260791-06-8P
 260791-07-9P 260791-08-0P 260791-09-1P 260791-10-4P 260791-11-5P
 260791-12-6P, Tricyclo[3.3.1.1^{3,7}]dec-4-en-2-one 260791-13-7P
 260791-14-8P 260791-15-9P 260791-16-0P 260791-17-1P 260791-18-2P
 260791-19-3P 260791-20-6P 260791-21-7P 260791-22-8P 260791-23-9P
 260791-24-0P 260791-25-1P 260791-26-2P 260791-27-3P 260791-28-4P
 260791-29-5P 260791-30-8P 260791-31-9P 260791-32-0P 260791-33-1P
 260791-34-2P 260791-35-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of chemiluminescent dioxetane derivs. contg.
 phosphoryloxyphenyl moiety)

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CC 7-3 (Enzymes)

ST aryl esterase dioxetane hydrolysis chemiluminescence

IT Luminescence, chemi-
 (aryl esterase- and base-catalyzed, from dioxetanes)

IT 9032-73-9, Aryl esterase
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dioxetane hydrolysis by, chemiluminescence from)

IT 110347-75-6 110347-76-7
 RL: FORM (Formation, nonpreparative)
 (formation of, in dioxetane enzymic hydrolysis by aryl esterase)

IT 110347-70-1 110347-71-2 110371-06-7

RL: PROC (Process)

(photooxygenation of, in presence of polymer-bound Rose Bengal)

IT 110347-73-4P 110347-74-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and aryl esterase- or base-catalyzed chemiluminescence from)

IT 110347-72-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. and thermal decompn. of)